



SUBSTITUTE SPECIFICATION

TITLE OF THE INVENTION:

5 Nectarine Tree 'S 6817'

CROSS REFERENCE TO RELATED APPLICATIONS:

None

10 **PRIORITY CLAIM:**

This application claims priority of U.S. Provisional patent application Ser. No. 60/404,173 filed August 15, 2002.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR

15 **DEVELOPMENT:**

None

LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED:

Prunus persica L. Batsch.

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VARIETY DENOMINATION:

'S 6817'

BACKGROUND OF THE INVENTION

The new nectarine tree 'S 6817' was developed by the Institut National de la Recherche Agronomique (INRA) at Angers, France, as part of a controlled breeding program. 'S 6817' was 5 one of several seedlings resulting from a cross of [(Kiang-Si x Independence) x Summergrand] x Marsun (all unpatented). 'S 6817' was asexually propagated by budding at Angers, France, and has been observed to remain true to type over successive asexually propagated generations.

BRIEF SUMMARY OF THE INVENTION

10 'S 6817' was selected for its suitability as a commercial nectarine tree cultivar. Fruit of the 'S 6817' cultivar matures in late August in central Washington state, and is notable for its oblate shape. The fruit of 'S 6817' is distinguishable from that of the parent varieties by its oblate shape and smooth skin. The characteristics which distinguish 'S 6817' from its parents are set forth in Table 1.

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Table 1

Variety	Fruit Type	Shape	Flesh Color
S 6817	Nectarine	Flat	Yellow
Kiang-Si	Peach	Flat	Yellow
Independence	Nectarine	Round	Yellow
Summergrand	Nectarine	Round	Yellow
Marsun	Peach	Round	Yellow

This variety is distinguishable over related variety 'S 6816' (U.S. Patent Application Ser. No. 10/642,442) by its later maturity date and larger and slightly astringent fruit.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS:

FIG. 1 shows a tree of the new cultivar;

FIG. 2 shows branches and blossoms of the new cultivar;

5 FIG. 3 shows a tree of the new cultivar;

FIG. 4 shows fruit and leaves of the new cultivar; and

FIG. 5 shows a sectioned fruit of the new cultivar.

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:

10 The following is a detailed botanical description of 'S 6817,' a new and distinct nectarine tree, based on observations made during the 2004 growing season, of specimens planted at Parker, Washington, USA, in 2001. The described trees were grown on 'Lovell' (not patented) rootstock. All colors are described according to the Royal Horticultural Society Color Chart. It should be understood that the botanical and analytical characteristics described will vary somewhat depending 15 upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

20 **Tree**

Type Non-spur type

Vigor Strong

Habit	Upright, spreading
Size	Width 3.2 m; height 1.9 m
Trunk	Diameter 23.8 cm at soil level; bark very rough; overcolor grey
5	201D; undercolor grey-orange 166D; lenticels 0.4 to 0.6 cm, yellow 159A

Flowering Branch

Size	Lateral branch diameter 2.6 cm, length 40.4 cm (previous season growth); internode length 2.8 to 4.9 cm
Color	Greyed-red 178A
10 Anthocyanin coloration	Present, medium intensity, red-purple 60B

Buds

Abundance of flower buds	Many
Distribution of flower buds	Generally in groups of two or more
Bud burst	March 20 at Parker, Washington
15 Duration of flowering	March 20 to April 7 at Parker, Washington
Bud size	Length 0.8 to 0.9 cm
Bud shape	Elongated with blunt tip, smooth
Bud color	Red-purple 60A, tip pink 68B
Tolerance to cold	Hardy

20 Flower

Type	Showy
Calyx color (open flower before falling of petals)	Orange

	Petals	Quantity 5; length 1.6 to 1.7 cm, width 1.2 to 1.4 cm; margins ruffled, overlapping; shape rotund; color at tip pink 69C, at base pink 70B
	Flower size	Diameter 3.9 to 4.0 cm
5	Fragrance	Mild
	Sepals	Length 0.4 to 0.5 cm, width 0.3 to 0.4 cm; red-purple 60A
	Reproductive organs	Stamen white 155D, quantity 32, length 0.9 to 1.0 cm; anther length 0.5 cm; filament 0.8 to 0.9 cm; pistil 1.1 to 1.2 cm, smooth, yellow 1A
10	Pollen	Semi-abundant, yellow 1A
	Leaves	
	Size	Large, length 14.5 cm, width 3.0 cm
	Ratio length/width	Medium
	Leaf shape	Oblanceolate, upfolded, tip recurved downward, base nearly right angle, equilateral, apex acuminate
15	Leaf margin	Serrulate
	Leaf color	Upper surface green 147A; lower surface green 144A, anthocyanin coloration absent
	Petiole	
20	Size	Length 1.0 cm, diameter 0.1 cm
	Color	Green 149D
	Glands	Present, usually more than 2, reniform

Fruit

Size	Medium, diameter 8.6 cm
Shape in profile view	Oblate, very flat
Shape of tip	Bowl shaped depressed
5 Symmetry when cut along suture	Asymmetric
Suture	Marked
Depth of petiole cavity	Shallow, 1.2 cm
Width of petiole cavity	Medium, 4.0 cm
10 Skin	Thin, smooth, tenacious; ground color yellow-orange 19A, overcolor red 45A
Firmness of flesh	Firm, crisp
Flesh texture	Fine
Color	Yellow-orange 23C
Anthocyanin coloration directly under skin	Absent
15 Anthocyanin coloration of the flesh	Absent
Anthocyanin coloration around the stone	Present, red 43A
Pit cavity	Diameter 2.6 cm, color red-purple 59C
Flavor	Sub-acid
Sugar content of flesh	Medium, 12.5° Brix
20 Stone	
Size	Small in relation to fruit, diameter 26 mm
Shape	Flat, round, surface texture ridged

Color Red, 53A

Likelihood of stone to split Absent or very weak

Degree of adherence to flesh Medium, semi-freestone

Maturity

5 Time of maturity Late, beginning August 27 at Parker, Washington; requires more than one picking

Preharvest drop Some occurrence

Heat and cold tolerance Tolerant in area tested (USDA Zone 6)

Resistance to diseases and pests None observed